SAP NetWeaver AS ABAP Developer Edition Installation Pitfalls + Video Tutorial

beyhan_meyrali
Active Contributor

2022 Nov 14 11:25 AM

👍 | **17 Kudos**

25,261 Views

Hi community :),

After 2 days, I have my SAP NetWeaver AS ABAP Developer Edition 7.52 SP04 on Ubuntu Oracle Virtual box. Don't get scared, it is really easy. But took 2 days of mine.

I have tried to install it on Ubuntu a few times, all failed, then on openSuse those failed too. That is because I am just too lazy to read comments on blog posts. Also I need to give credit to blog authors, that is because **none of them tell you, "It will fail" at first time because of sybase licence** :D. Yeah, that is just part of installation.

So, I have decided to share pitfalls and exact steps with you to install without getting mad. Stay sane and follow steps below! Don't be lazy, read them all first. Pay attention to 25 and 26.

If you are not familiar with Linux and so far did not try and fail installing dev edition, I think you should follow that link -> https://abapacademy.com/blog/how-to-install-free-sap-system/ ,best of best so far, which is detailed version of https://www.sap.com/documents/2019/09/32638f18-687d-0010-87a3-c30de2ffd8ff.html

Video Tutorial of This Post

How to Install SAP NetWeaver AS ABAP Developer Edition …

Pitfalls

- Step 1 -

  - During installation of Linux Ubuntu, host name should be **vhcalnplci.**

  - Not sure if that is required, but password must be 8 chars and should contain Uppercase and number

- Step 17 - Etc hosts must be maintained

- Step 24 - you need to copy .lic file that is in License.rar to install.sh folder

- Step 25 - uuidd must active before starting installation and you need to be root before installing with ./install.sh

- Step 26- you need to copy license file to sybase license folder after failing first attempt

I need to thank Dylan Drummond, Julie Plummer and the person who pin pointed me

after failure Robert Stefanov.

Steps

1- Download Ubuntu **18.10** - https://old-releases.ubuntu.com/releases/

Why Old version of Ubuntu? -> https://blogs.sap.com/2021/06/07/adjusting-installer-script-for-sap-netweaver-dev-edition-for-distro...

Versions and Kernels -> https://askubuntu.com/questions/517136/list-of-ubuntu-versions-with-corresponding-linux-kernel-versi...

https://download.opensuse.org/distribution/leap/15.1/iso/

https://en.wikipedia.org/wiki/OpenSUSE#Leap_15.x_series

SUSE 15.1

set computer name : vhcalnplci

password should be **8 characters**

- my user name : codezen

- my password : Codezen1

2- Download SAP NetWeaver AS ABAP Developer Edition 7.52 SP04 -
> https://developers.sap.com/trials-downloads.html

3- Download and Install Oracle VirtualBox - https://www.virtualbox.org/wiki/Downloads

6.1.34

4- Guest additions installation - optional

5- sudo apt-get update

The repositories are still available on http://old-releases.ubuntu.com/ubuntu.

You can change them in /etc/apt/sources.list, replacing all occurences of http://archive.ubuntu.com (or it might http://tr.archive.ubuntu.com) with http://old-releases.ubuntu.com.

After that, apt-get upgrade will work again.

```
codezen@vhcalnplci: ~
 GNU nano 2.9.8                                          /etc/apt/sources.list
#deb cdrom:[Ubuntu 18.10 _Cosmic Cuttlefish_ - Release amd64 (20181017.3)]/ cosmic main restricted

# See http://help.ubuntu.com/community/UpgradeNotes for how to upgrade to
# newer versions of the distribution.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic main restricted
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic main restricted

## Major bug fix updates produced after the final release of the
## distribution.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-updates main restricted
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-updates main restricted

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team. Also, please note that software in universe WILL NOT receive any
## review or updates from the Ubuntu security team.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic universe
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic universe
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-updates universe
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-updates universe

## N.B. software from this repository is ENTIRELY UNSUPPORTED by the Ubuntu
## team, and may not be under a free licence. Please satisfy yourself as to
## your rights to use the software. Also, please note that software in
## multiverse WILL NOT receive any review or updates from the Ubuntu
## security team.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic multiverse
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic multiverse
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-updates multiverse
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-updates multiverse

## N.B. software from this repository may not have been tested as
## extensively as that contained in the main release, although it includes
## newer versions of some applications which may provide useful features.
## Also, please note that software in backports WILL NOT receive any review
## or updates from the Ubuntu security team.
deb http://old-releases.ubuntu.com/ubuntu/ cosmic-backports main restricted universe multiverse
# deb-src http://tr.archive.ubuntu.com/ubuntu/ cosmic-backports main restricted universe multiverse

## Uncomment the following two lines to add software from Canonical's
                                                         [ Read 57 lines ]
^G Get Help    ^O Write Out   ^W Where Is    ^K Cut Text    ^J Justify     ^C Cur Pos     M-U
^X Exit        ^R Read File   ^\ Replace     ^U Uncut Text  ^T To Spell    ^  Go To Line  M-E
```

6- sudo apt-get upgrade

7- sudo ufw disable
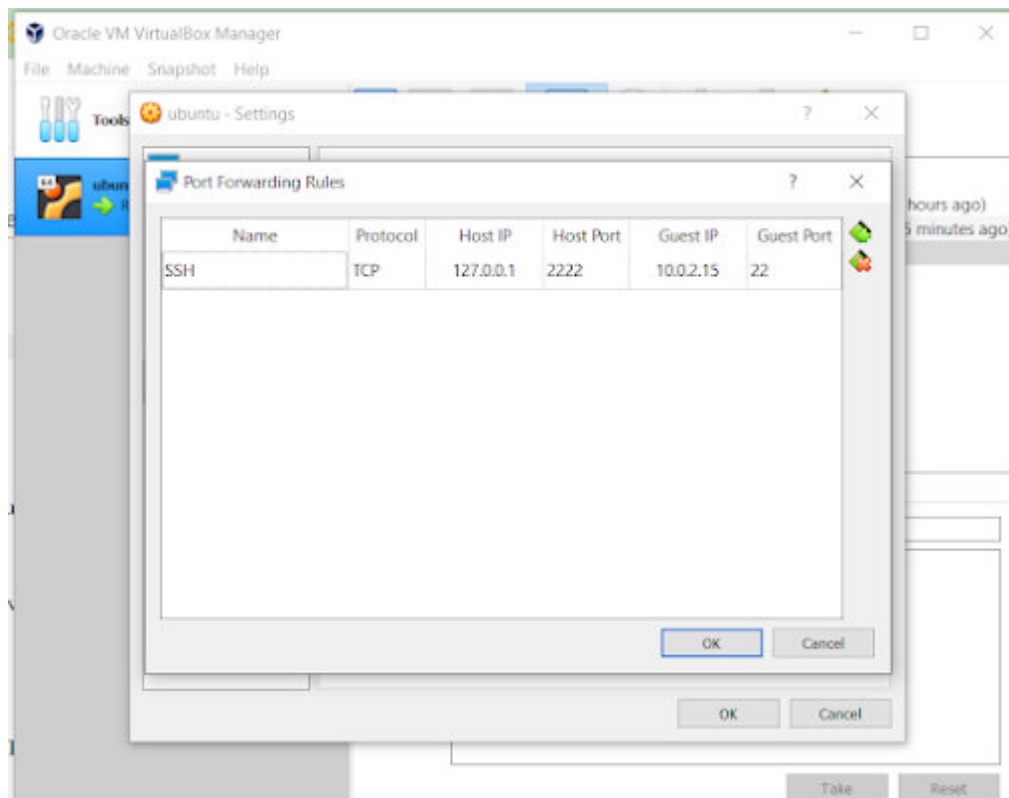
8- sudo apt-get install openssh-server

after ssh;

- you can use putty to connect via ssh port 22

- you can directly connect sftp via 22, i use filezilla

9- sudo reboot now

10- vbox port fowarding and putty connection via ssh

127.0.0.1 2222 10.0.2.15 22

11- Take snapshot

12- sudo apt install gcc make perl

13- sudo apt install csh

#the C-shell, needed for the install of NetWeaver to work. You can check shells cat /etc/shells
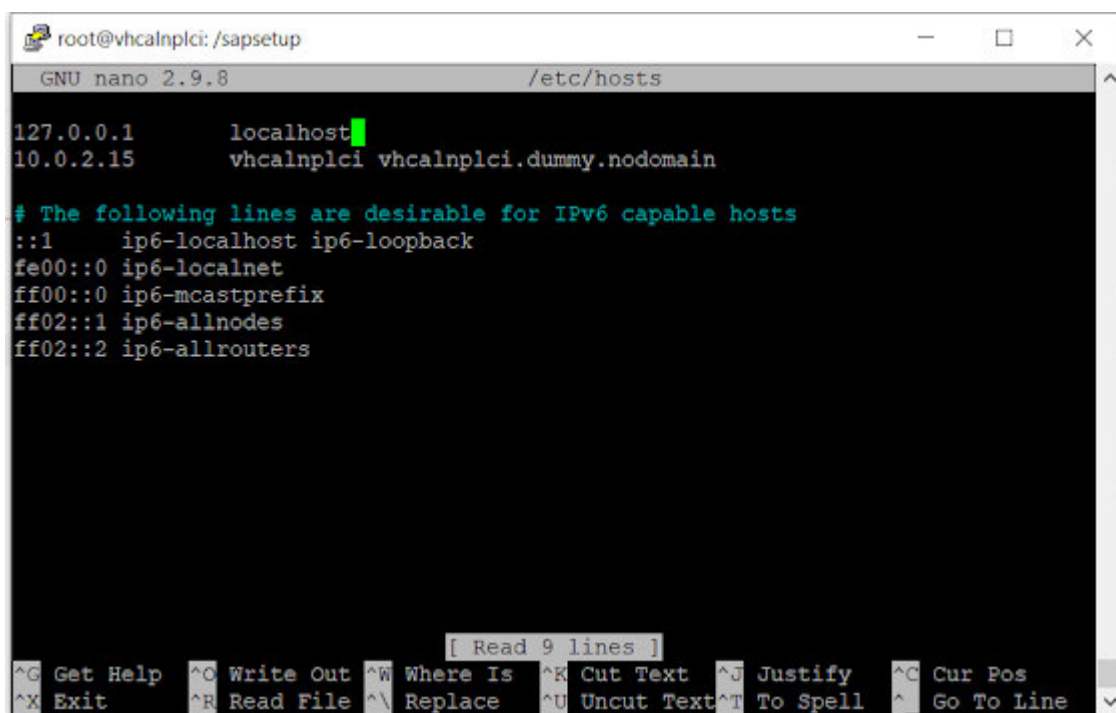
14- sudo apt search libaio

15- sudo apt install libaio1

16- sudo apt install uuid

17- sudo nano /etc/hosts

```
127.0.0.1    localhost
10.0.2.15    vhcalnplci vhcalnplci.dummy.nodomain

# The following lines are desirable for IPv6 capable hosts
::1      ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

18- sudo reboot now

19- sudo systemctl start uuidd

to check status

- sudo systemctl status uuidd

- or sudo service uuidd status

20- create a link between windows host and ubuntu via shared folder

- sudo mkdir /shared

- sudo chown 777 /shared

- sudo adduser codezen vboxsf

- sudo reboot now

21- copy files

- cd /shared

- cd SAP\ Abap\ Netweaver/

- ls -all

- sudo mkdir /sapsetup

- sudo cp -f *.rar /sapsetup/
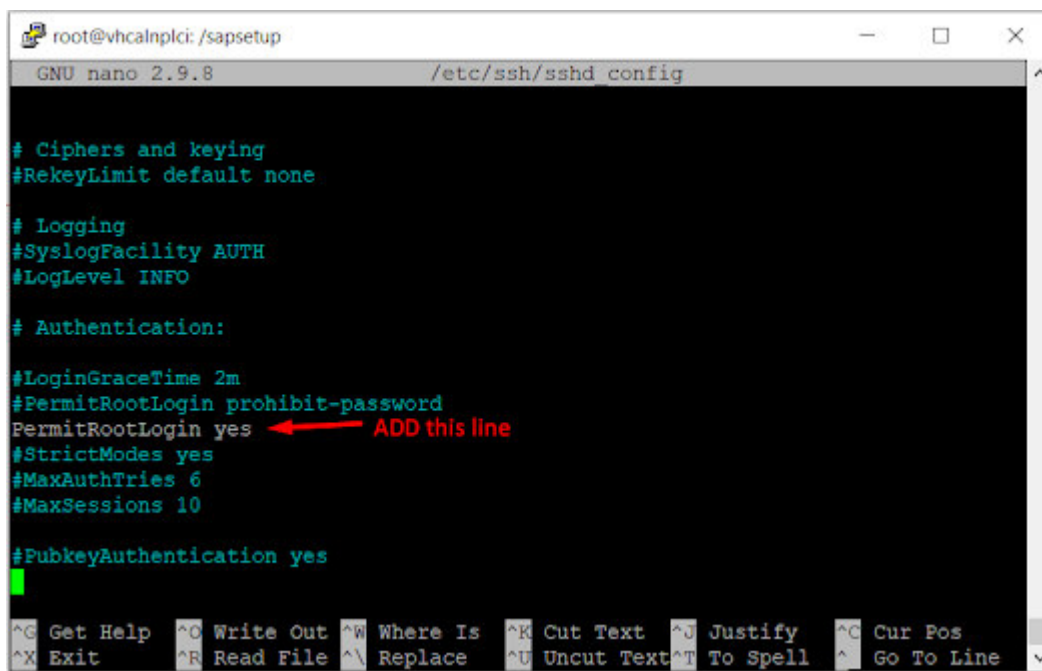
License file!!!

or

20- connect as root with sftp client and copy files via drag and drop

- sudo passwd root

- sudo nano /etc/ssh/sshd_config

Find the line contains "PermitRootLogin no", modify it to "PermitRootLogin yes".

- sudo service ssh restart

- sudo mkdir /sapsetup

- sudo chmod 777 /sapsetup

- filezilla site to connect via sftp 127.0.0.1 2222

- drag and drop rars to /sapsetup

- sudo chmod -R 777 /sapsetup/
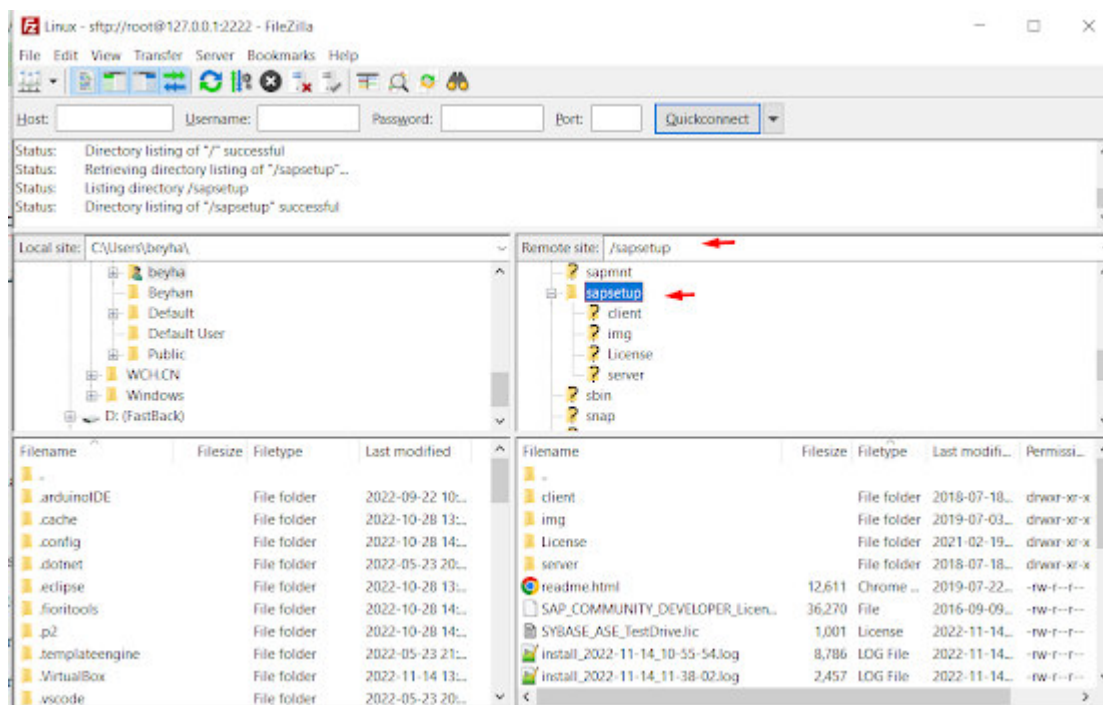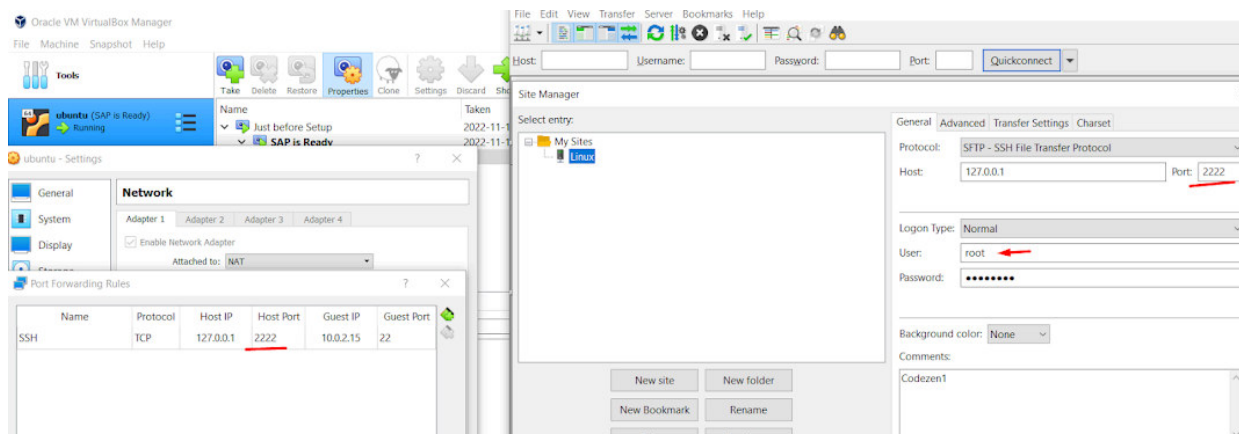
22- Take a snapshot

23- sudo cd /sapsetup

24- sudo apt-get install unrar

- sudo unrar x TD752SP04part11.rar

- sudo unrar x License.rar

- sudo cp /sapsetup/License/SYBASE_ASE_TestDrive/SYBASE_ASE_TestDrive.lic /sapsetup/

- add license file .lic to same folder with install.sh

25- Installation time

- sudo systemctl start uuidd

- sudo -i

- cd /sapsetup

- sudo chmod 777 install.sh

- ./install.sh

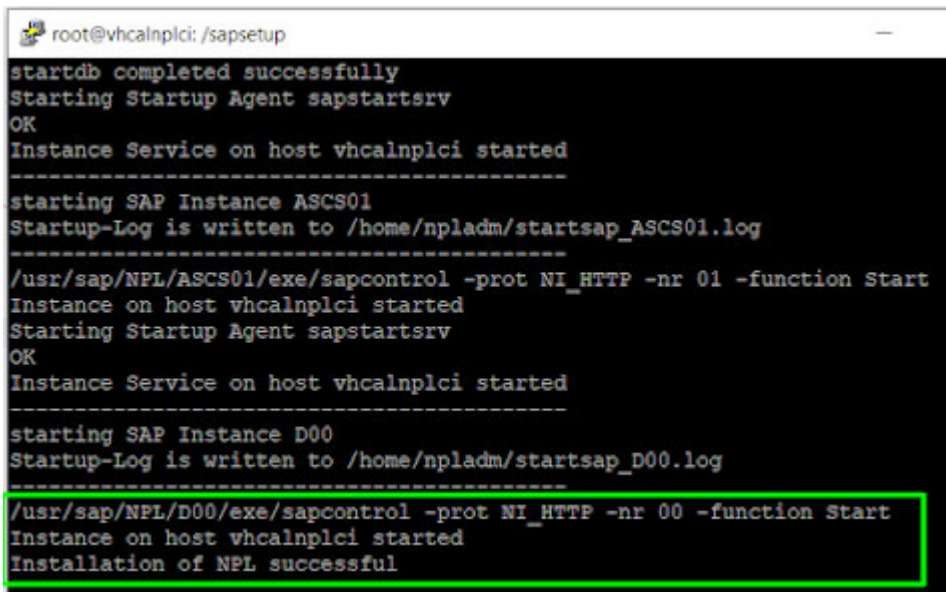26- **Fails with Unable to generate a new password for database login 'sa' in sapinst_dev.log**

https://answers.sap.com/questions/13339864/error-during-sap-nw-752-installation.html?childToView=133...

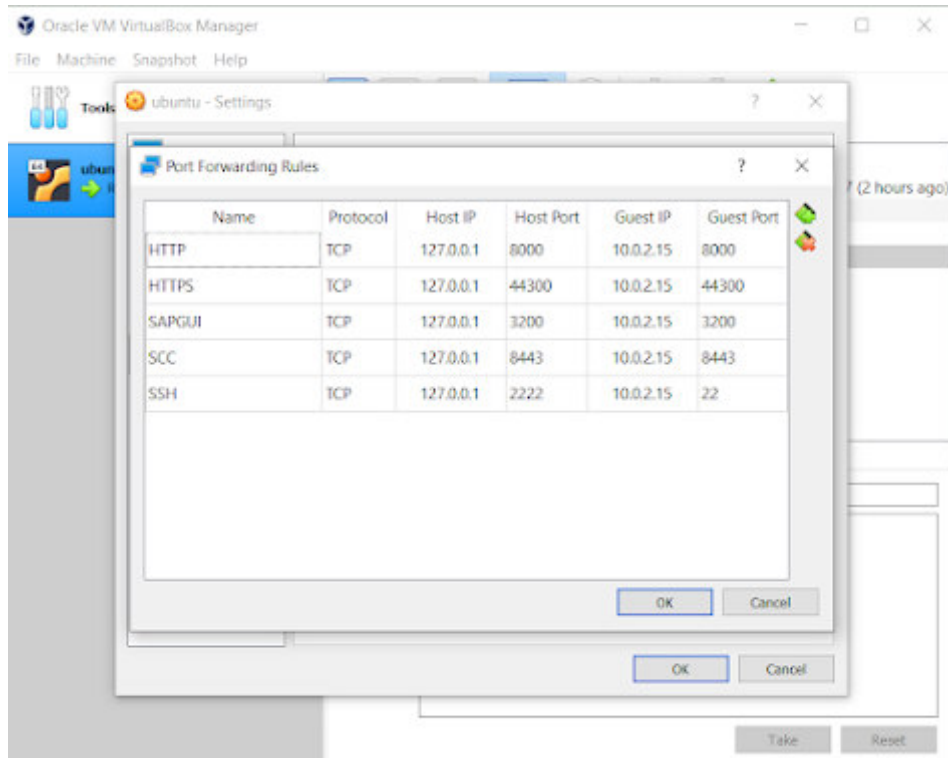copy lic file to /sybase/NPL/SYSAM-2_0/licenses/SYBASE_ASE_TestDrive.lic

- cp SYBASE_ASE_TestDrive.lic /sybase/NPL/SYSAM-2_0/licenses/

27- ./install.sh

That is it. Let's connect 🙂

Name	Protocol	Host IP	Host Port	Guest IP	Guest Port
HTTP	TCP	127.0.0.1	8000	10.0.2.15	8000
HTTPS	TCP	127.0.0.1	44300	10.0.2.15	44300
SAPGUI	TCP	127.0.0.1	3200	10.0.2.15	3200
SCC	TCP	127.0.0.1	8443	10.0.2.15	8443
SSH	TCP	127.0.0.1	2222	10.0.2.15	22

Description: A - Local Dev

Application Server: 127.0.0.1

Instance Number: 00

System ID: NPL

SAProuter String:

User name : DEVELOPER

Pass: Down1oad
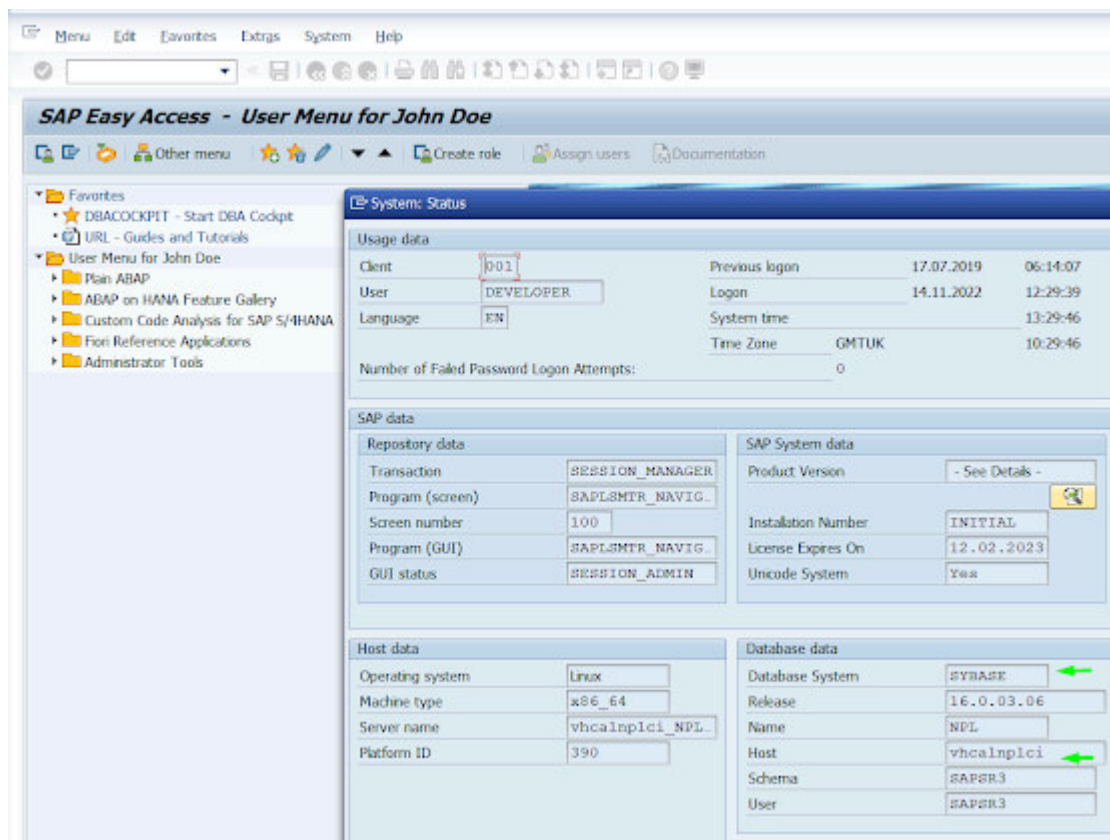
for developer access key,

- go to slicense tcode delete installed licences

- go to https://go.support.sap.com/minisap/#/minisap pake and enter hardwarekey from slicense tcode(Remote Hardware Key Tab, Active Hardware Key field value) and install downloaded licence file.

And for eclipse adt development settings please read ->
https://blogs.sap.com/2022/11/16/eclipse-adt-sap-netweaver-as-abap-developer-edition-connection/

To stop/start SAP
----
su npladm
Pass: Codezen1

stopsap ALL
startsap ALL

Related Links

Tutorial - https://abapacademy.com/blog/how-to-install-free-sap-system/ - Best of best
so far.

Just does not mention the step 26 and 27

https://blogs.sap.com/2018/04/05/installing-sap-netweaver-developer-edition-on-an-
ubuntu-desktop-vm-... very detailed!

https://blogs.sap.com/2018/04/05/installing-sap-netweaver-developer-edition-on-an-
ubuntu-desktop-vm-...

https://blogs.sap.com/2019/04/01/part-1-installing-sap-netweaver-as-abap-developer-
edition-7.52-sp01-...

https://blogs.sap.com/2019/10/01/as-abap-7.52-sp04-developer-edition-concise-
installation-guide/ - Passwords and some technical details

https://answers.sap.com/questions/13008312/sap-netweaver-752-sp-abort-execution-
because-of-st.html

https://blogs.sap.com/2016/11/03/linux-for-newbies-installing-opensuse-on-oracle-
virtualbox/

https://answers.sap.com/questions/13339864/error-during-sap-nw-752-installation.html?
childToView=133...

https://abapacademy.com/blog/sap-trial-license-expired-how-to-prolong-sap-trial-
license/

Tags:

  ubuntu   vbox   virtual box

Comments

dylan-drummond   Contributor

Nice blog there, well done.

If you want to use more recent versions of Ubuntu and/or openSUSE Leap, then the installation will also succeed with those versions, if you use the advice here (warning: self-promotion alert):

https://blogs.sap.com/2021/06/07/adjusting-installer-script-for-sap-netweaver-dev-edition-for-distro...

(<- That blog assumes that you are reasonably competent in installing Dev Edition; so if you are a newbie then maybe best to try first with older versions of the Linux distros, as is well-described in Beyhan's blog above).

beyhan_meyrali   Active Contributor

2022 Nov 15
10:10 AM

🙂 Thanks Dylan.

dukejib5   Participant

2023 Jan 29
7:10 AM

beyhan.meyrali

Thanks for the awesome post.

I was able to install the trial in 1 go, thanks to your clear instructions.

Only thing, which must be mentioned , is that VM should have 80-100 GB space (considering rar, unpack & installation requirements , i luckily added 80GB, and it came down to 72 GB in total)

There are 2 things, which i am facing bit problem .

Fiori is not showing up (Following your port forwarding setup) and Screen Painter is also not working in SE80. Is it by design?

	beyhan_meyrali Active Contributor	2023 Jan 30 7:36 AM

Hi Ali,

I don't have answer for those 2 questions.

I have only tested it with Vue app not with Fiori app. And also did not try screen painter neither.

	dukejib5 Participant	2023 Jan 31 3:59 AM

Thanks for reply.

i was able to activate screen painter by forwarding RFC port 3300.

Still working on Fiori, and will update it here for others as well.

beyhan_meyrali   Active Contributor

2023 Jan 31
6:49 AM

Thanks for sharing Ali.

D   DanielAguilar   Explorer

2023 Jan 31
10:59 PM

Thanks for this post I tried to install a lot of times and now it's working!!! Thanks!

F   FiratAsan   Active Participant

2023 Feb 05
12:36 PM

Thank you. Great and clean blog. Nice, simple and understandable explanation. It is very useful for you to explain the steps in detail in the video. I have done it. However, the system is running very slow. I think it's from the virtual machine settings.

beyhan_meyrali   Active Contributor

Hi Firat,

it demands some hardware indeed. I have nvme disk, i7 cpu and 32gb ram. It worked fine on my machine.

L   **lcastanha**   Discoverer

Marvelous tutorial!

Highly detailed. Well done!

Only thing is the virtual box as well as the SAP server was extremely slow.

O solved it after making some changes in the virtual box settings based on this post:

FIX: VirtualBox Running Very Slow in Windows 10/11. (Solved) - wintips.org - Windows Tips & How-tos

beyhan_meyrali   Active Contributor

Thanks a lot. Happy to see more people are benefiting for blog 🙂

Cheers

R	**RanjitLal** Discoverer	2023 Feb 22 2:04 PM

Hi Beyhan Meyrali ,

Excellent blog.

I was able to install it in one go following your blog and the video where you have explained in detail all the required steps and also resolving the issues caused during installation.

Very detailed one.

Eagerly waiting for more blogs from you.

Once again Thank you for the nice blog.

Regards

Ranjit V

	beyhan_meyrali Active Contributor	2023 Mar 03 10:34 AM

Thanks Ranjit.

Regards

P soldierblue Member

2023 Mar 13
3:39 PM

Great blog. Helped immensely

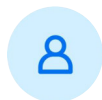beyhan_meyrali Active Contributor

2023 Mar 14
6:20 AM

Hi Peter,

Happy to read it is helpful.

Thanks for commenting.

former_member300714 Discoverer

2023 Mar 14
11:49 AM

It seems to be next to impossible to upgrade from 18.10. I'm happy to keep using netweaver on Ubuntu 18.10 but I was interested to see what would happen on the latest version. I destroyed my instllation trying to upgrade, but thanks to the snapshot it wasn't a problem

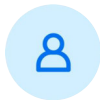I might try again on Ubuntu 20.04

beyhan_meyrali   Active Contributor

Hi Peter 🙂

It is 18.10 because of kernel version.

You can read the part -> Why Old version of Ubuntu? ->
https://blogs.sap.com/2021/06/07/adjusting-installer-script-for-sap-netweaver-dev-
edition-for-distro...

former_member300714   Discoverer

I managed to get everything working on Ubuntu 22.04 following your guide as well
as the extra steps to edit the install.sh script.

The only problem I had was at step 24 of your guide. For some reason it's
necessary to copy the Sybase ASE license back into the expanded install directory:

```
sudo cp /SAPNWINST/SYBASE_ASE_TestDrive.lic /SAPNWINST/server/TAR
```

Where /SAPNWINST/ is the install directory

Also, after launching the install script the license is displayed, but there doesn't
seem to be a way to scroll down. If you use Ctrl+C to escape, then there is a
prompt to accept the license and it's possible to proceed from there.

C   carlosmario_lopezrodrigue   Member

<div align="right">

2023 Apr 17
5:30 PM

</div>

Hello Beyhan Meyrali,

Excellent blog and video.

I wanted to download SAP NetWeaver AS ABAP Developer Edition 7.52 SP04. In
fact, there are 12 files to download, but when I started to download the files, I
received a message saying:

"Your request for information is being reviewed. Once approved, you'll receive an e-
mail with additional instructions."

Note: I have sent an email to SCNContent@sap.com but have not received a
response.

Could you please share the 11 files from another link or drive for download?
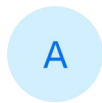
Thank you.

Regards.

beyhan_meyrali   Active Contributor

<div align="right">

2023 Apr 18
12:42 PM

</div>

Hi Carlos,

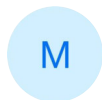Thanks for commenting. You need to download via SAP page.

Regards

| A | amani7681   Discoverer | 2023 Nov 13
7:22 AM |

tanks alot for good guide

| M | baraklejuriste60   Discoverer | 2023 Nov 15
1:44 PM |

I'am having problem with the installation; some issues from step 12 and 13 via PUTTY.

after the command "sudo apt install gcc make perl" I'm getting the following output:

```
0 packages can be updated.
0 updates are security updates.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '20.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```
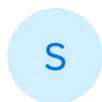
and running the step 13 command (sudo apt install csh) gives the following result:

E: Unable to locate package csh

did someone have the same issue?

thanks

| S | strahinja_jovicic_93   Discoverer | 2024 Feb 13
3:38 PM |

Hello,

Do you have the steps on what I should do when the license expires?

Thank you!

| B | rasconbeatrice   Explorer | 2024 Feb 14
7:29 AM
-
edited
2024 Apr 17
9:09 AM |

- edited

Thanks for sharing your insights on **SAP NetWeaver AS ABAP Developer** Edition installation pitfalls! It's always helpful to learn from others' experiences, especially when it comes to technical setups like this. Your video tutorial is a fantastic addition, making it easier for newcomers to navigate through potential challenges.

I particularly appreciated your emphasis on [mention a specific point from the post]. It's a crucial aspect that often gets overlooked but can save a lot of time and frustration in the long run.
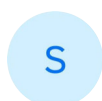
Looking forward to more valuable content from you!

A   Ahmed101   Discoverer   2024 Mar 31
                                                                   7:48 AM

I installed the Sap and every think is good , but when write table name as mara or ekpo or . .. etc I see this table is not exist . how can install demo tables in sap .

S   Sandra_Rossi   Active Contributor   2024 Mar 31
                                                                   10:01 AM

@Ahmed101 You should ask the question here: Technology Q&A | SAP Community

beyhan_meyrali   Active Contributor   2024 Jul 06
                                                                   6:59 AM
                                                                      -
                                                                   edited
                                                                   2024 Jul 06
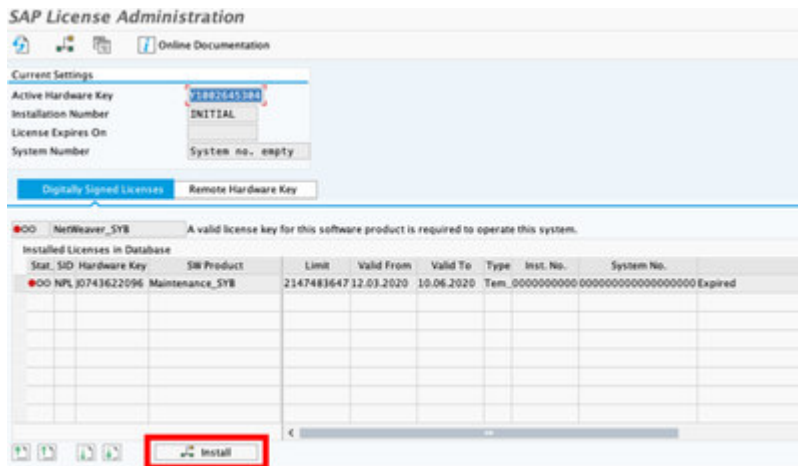   7:09 AM

- edited

To Renew license;

Download valid license from SAP -> https://www.sap.com/minisap

```
Client 000

Users: SAP*

Password: Download

Transaction: SLICENSE
```

Install via slicense tcode